TO ARCHITECTS AND BUILDERS.

CHUBB'S WROUGHT-IRON and FIRE-PROOF DOORS and FRAMES, for strong Rooms. A large stock of the above, of all sizes, made in the best manner, and of different strengths, fitted with CHUBB'S PATENT DETECTOR LOCKS, throwing from two to twenty bolts, constantly on sale, at very moderate prices. FIRE-PROOF SAFES of every size, and Patent Detector Locks and Latches for all purposes.—C. CHUBB and SON, sole Manufacturers, 57, St. Paul's Churchyard, London.

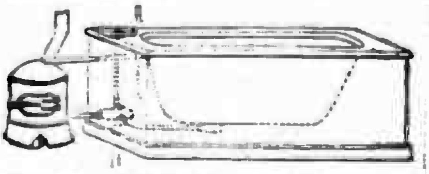
TO FLORISTS AND OTHERS.

J. JONES, Iron merchant, has always a great variety of CONICAL and SADDLE BOILERS in STOCK; also fire and [illegible] bars, ornamental and plain supply cisterns, double doors and frames, furnace grates, soot doors for the same, hot water pipes, elbows, tees, syphons, throttle valves, stop cocks, flange and socket elbows, &c.; also trough pipes. Drawings and prices of the above, on application to J. JONES, Iron-bridge-wharf, No. 6, Bankside, London, near the Southwark Iron Bridge.

WARMING by HOT WATER.—J. WEEKS and Co., KING'S-ROAD, CHELSEA, solicit the honour of Architects to inspect their Hot-Water Apparatus, which is to be seen on their premises, in extensive operation. Ornamental Pedestals and Stacks of Pipes in great variety, applicable for warming churches, mansions, entrance-halls, offices, conservatories, &c.—TUBULAR BOILERS of all sizes, warranted to be the most efficient and economical of any yet introduced.—J. WEEKS and Co., Hot-Water Apparatus Manufacturers, King's-road, Chelsea.

IRON FOUNDRY, 80, Goswell-street (late of Brick-lane, St. Luke's).—J. J. JONES having made great additions to his STOCK of PATTERNS, begs to inform the Trade, that he can now supply them with Plain and Ornamental Iron Columns, Girders, Railings, Gates, Iron Copings, Balconies, Window Guards, Verandahs, Ornamental Staircase Panels, Iron Staircases, Tomb Enclosures, Trellis Panelling, Lamp and other Brackets, Cantilevers, Newel Bars, Water Closet Work, Area Gratings, Fly and other Wheels, Wheel Plates, &c.

BAKERS' OVEN WORK, Forge Backs and Troughs, Rain Water Pipes and Gutters, Sash Weights, Furnace Bars, Stoves, Ranges, &c., always in stock.



BATHS.—J. TYLOR and SON'S improved APPARATUS, consisting of copper or galvanized iron baths, coated with enamelled white or Sienna marble inside, copper circulating boiler, with three-way cock for hot, cold, and waste water, complete. Is MOVEABLE, and does not require any BRICK-WORK. Manufacturers of every description of boilers and coil pipes for heating baths or public buildings, hospitals, union workhouses, asylums, &c.—Apply to Ironmongers or Plumbers, or to the Manufacturers, Warwick-lane, London.

THE attention of those who are interested in Building is earnestly invited to a method of constructing the FLOORS, CEILINGS, and ROOFS of HOUSES on an IMPROVED FIRE-PROOF PRINCIPLE, the adoption of which occasions important advantages at a cost not greater than that of the common mode of building with timber. Perfect security from fire—economy of construction—freedom from the attacks of dry-rot, insects, &c.—and increased strength and durability, are the leading features of this system; a pamphlet fully descriptive of which, and all further information, may be obtained on application to the proprietors of the patent, Messrs. FOX and BARRETT, 46, Leicester-square, London.

TO BUILDERS AND OTHERS.

HART and SONS, Wholesale and Manufacturing Ironmongers, Nos. 53, 54, and 55, Wych-street, Strand, [illegible], Proprietors and sole Manufacturers of PITT'S PATENT SELF-ADJUSTING DOOR FURNITURE and [illegible], and Manufacturers of Dr. ARNOTT'S VENTILATING CHIMNEY VALVES.

HART and SONS solicit the attention of Builders, House Decorators, Smiths, Bell-hangers, &c. &c., to their extensive and well-selected stock of DOOR FURNITURE in every suitable material, en suite with finger-plates, bell-pulls, levers, &c., and also to their

LOCKS and LATCHES in mortice, rim, drawback, iron gate, cabinet, &c., of all qualities, including Barron's, Bramah's, Chubb's, and Pitt's Patents.—To their

GENERAL IRONMONGERY—wrought and cut nails, screws, hinges, bolts, &c. &c.

BRASS FOUNDRY.—Bell cranks of all descriptions, curtain-poles, picture rods, stair-rods, door handles, desk and hat rails, window guards, Espagnolette bolts, &c. &c.

WINDOW FITTINGS of all kinds, including brackets, rods, arms, sliding sockets, traps, &c. &c.

DOOR SPRINGS and HINGES, including Redmund's, Smith's, Collinge's, Gerish's, and Cotterell's patents.

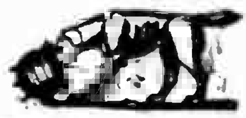
WINDOW BLIND FITTINGS of the most approved principle.

SHERINGHAM'S and all other VENTILATORS.

LEA'S RACK BOLT MORTICE LOCKS, for which they are AGENTS, as well as for all inventions of merit as soon as perfected.

HART and SONS, aware that the practice of publishing NET price-lists is injurious to the interests of the trade generally, are unwilling to follow it, but at the same time they beg to assure their friends that their prices will be found equally as low as those of any other respectable house.

STOVES, RANGES, &c.



HAYWARD, BROTHERS,

196, Blackfriars-road, and 117 and 118, Union-street, Borough,
IRONMONGERS, and MANUFACTURERS
Of Self-acting Ranges, Elliptic and Register Stoves, Arnott's Valves, &c.
SOLE MANUFACTURERS OF
HENLY'S patent improved KITCHEN RANGE, with hot plate.
Wolfaston's patent radiating and reflecting Register Stoves, and
SHERINGHAM'S VENTILATOR.

TO BUILDERS and CARPENTERS.—

[illegible] Stoves, double backs, 3½d. per inch.
[illegible] Stoves, 5d. 6d. 6½d. 7½d. per inch.
Self-acting Ranges, with circular ovens and back boilers, best wrought bars and bright fittings:—
3 ft. [illegible] 3 ft. 6 in., £2 7s. 4 ft., £2 12s.
2-feet Cottage Ranges, with ovens and back boilers, 25s. each.
[illegible] ditto .... 28s. each.
Air Bricks, [illegible] per doz.—1-inch Cut Lath Nails, 13s. 6d. per cwt.

Best Patent Cut Clasp.

2½	2¼	2	1½	3 inch and larger.
16s. 3d.	14s.	13s.	12s. 6d.	12s. per cwt.

Best Sheet Floor Brads, 11s. 6d. per cwt.
Best Town Glue, 9s. Ditto, Scotch, 8s. per cwt.

Best Patent Sash Line.

1	2	3	4	5	6
4s.	4s. 6d.	5s. 6d.	7s.	9s.	10s. 6d. per gross.

At F. R. WILLIAMSON'S IRONMONGERY and STOVE WAREHOUSE, 28, Chiswell-street, Finsbury-square.
Lists of Prices had on application at the Warehouse, or by letter, pre-paid, including postage stamp.—Warehouse closes at 7 o'clock.

CLARK and HUNT'S IRONMONGERY, STOVE and METAL WAREHOUSE, 159, Shoreditch.

Strong Elliptic Stoves, with extra back, 3½d. per inch.
Register Stoves, 6d. per inch.
3-ft. Self-acting Cottage Ranges, with Oven and Boilers, 25s. each.
3-ft. Self-acting ditto, with wrought bars and bright fittings, 50s. each.

Cast Rain-water Pipe	2	2½	3 inch.
	9d.	10½d.	1s. per yard.

Cast Gutters—4 inch, 9d. per yard.

O.G. Gutters	4	4½ inch.
	11d.	1s. per yard.

Best Cut Clasp and Rose	1½	1¾	2	2½	3 inch.
	14s. 6d.	14s.	13s. 6d.	13s.	12s. per cwt.

Sheet Flooring Brads, 11s. 6d. per cwt.
1-inch Cut Lath, 14s. Cast Lath, 9s. 6d.
6-inch 2-Bolt Rd. Ward Mortise, with best Furniture and Patent Spindles, 3s. 6d.
Light Elliptic and Register Metal, 12s. per cwt.
Hot Water Pipes, 9s. 6d. per cwt.
Dr. Arnott's Ventilators, 5s. each.
An extensive stock of bar, rod, hoop, and sheet iron.

TO BUILDERS AND CARPENTERS, &c.

J. H. BOOBBYER and CO., late Sturch and Boobbyer, Ironmongery, Brass Foundry, Nail, and Tool Warehouse, No. 14, Stanhope-street, Clare-market, London, for the supply of Carpenters, Builders, Cabinet-makers, Upholders, &c. at wholesale prices.

Best Cut Sheet Flooring Brads, 11s. 6d. per cwt.

Fine Cut Clasp and Rose.

14s. 6d.	14s. 6d.	13s. 6d.	13s.	12s. 6d. per cwt.
1¼	1½	2	2½	3 inch.

Best Bright Tower Bolts.

1s. 3d.	1s. 7d.	2s. 3d.	2s. 6d. per dozen.
3	4	5	6 inch.

Best Patent Sash Line.

4s.	4s. 6d.	5s. 6d.	7s.	9s.	10s. 6d. per gross.
No. 1	2	3	4	5	6

Cast Lath Nails, 10s. per cwt. Air Bricks, 2s. 6d. per dozen.

DR. ARNOTT'S VENTILATORS.

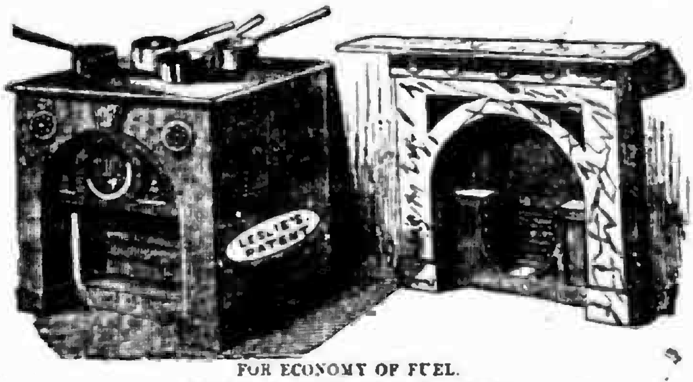
10 by 7 inches .... 5s. each.
16 by 9 .... 6s. —

An assortment in Brass, Bronzed, Gilt, &c.

An extensive stock of Mortise Locks, Drawback Locks, Iron Rim Locks, and Latches, of every description, at very reduced prices; also Door Furniture, in china, amber, crystal, ivory, ebony, buffalo, horn, brass, &c., with Finger-plates, Bell-pulls, and Levers en suite.

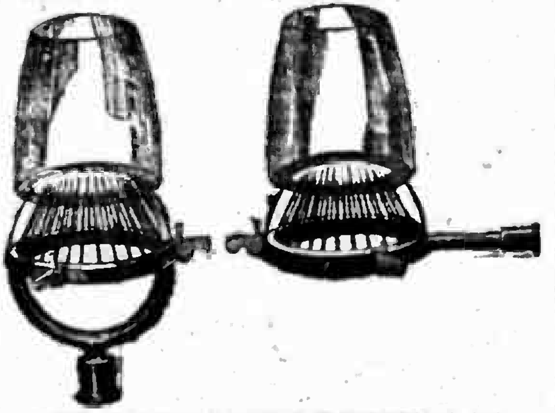
B. and Co. are the inventors of SHIFTING BOLT MORTISE LOCKS, &c., so universally approved of.—Established nearly 5[illegible] years, for the supply of goods from the best manufactories at the lowest prices.

MR. LESLIE'S PATENTS.



FOR ECONOMY OF FUEL.

In great variety of forms from 30s. upwards.



FOR HEALTHY AND CHEAP COMBUSTION OF GAS.

These patents comprise his peculiar method of purifying the gas; his small copper and iron tube burners, and his glass combustion chambers, superseding the old and wasteful gas chimney.

These combustion chambers are the result of the great philosophical discovery Mr. Leslie made, that any given portion of gas required for the full development of its light a particular area and configuration of glass chamber, in which it was to be burnt. These various patents have attracted the attention of most of our own chemists and natural philosophers, as well as those of foreign states. Professor Brande introduced it at the Royal Institution in February, 1849; and in a recent report to Government, Dr. Lyon Playfair estimates the combined advantages of Mr. Leslie's patents at 75 per cent., as a minimum. In Vol. III., page 42, of the *Patent Journal*, will be found the specification, with accompanying diagrams, of this patent, and we now add a few practical results.

GENERAL POST-OFFICE.—At this immense establishment, the consumption of gas in the year 1847 was [illegible] cubic feet, at 7s. per 1,000, £[illegible] 18s. 9d. The improvements effected by Mr. Leslie's patents at the banking-house of Messrs. Smith, Payne, and Smiths led to an introduction to the Post-office; seven burners were put up, which became choked every night. Mr. Leslie explained that it was the great impurity in the gas, and advised, as he had advised Messrs. Smith, Payne, and Smiths, to purify all the gas. It was done, and a most beneficial result instantly followed. He was then ordered by the Postmaster-General, with the sanction of the Treasury, to make a great extension of his system, and in January, 1848, in seven only of the offices of the Inland department, Mr. Leslie took off the fifteen-hole Argand burners, and substituted [illegible] of his patent copper tube burners, which have been acting ever since with great economy and economic advantages, thus saving the entire gas consumption of 434 Argand burners. About twenty-three millions of cubic feet of gas have passed through his purifying process at the Post-Office since October, 1847. Various obstructions out of the Post-office have, until very recently, prevented the further extension of Mr. Leslie's system; the whole conspiracy is known to Mr. Leslie, and will in due time be published. But during the last fortnight the London district has been placed on Mr. Leslie's plan, as in the Inland department, and in one room fifty-two fifteen-hole Argand burners have been superseded by eleven of Mr. Leslie's patent tube burners, each of which consumes four feet per hour, to the manifest advantage of the health of the officers on duty, and the public expenditure. In this department about 1[illegible] fifteen-hole Argand burners have already been extinguished, as utterly useless, and most dangerous to the health of the people employed by the products of unnecessary gas consumption. The whole internal and external lighting of the General Post-office, including the Money-order office, cost last week 1s. 1d. per hour. The most moderate computation of the present saving, taking into consideration the enormous increase of business and additional offices, will be three millions of cubic feet of gas per annum at the General Post-Office, with the gratifying facts that the offices already completed by Mr. Leslie never were so well lighted, nor the atmosphere of the rooms so healthy and comfortable.

OFFICES OF THE COMMISSIONERS OF HER MAJESTY'S WOODS, &c.—All Mr. Leslie's patents have been in operation for two years; the internal and external burners have on the average cost 21s. 6d. each for gas during the last year.

THE GREEN PARK PUBLIC LIGHTS.—These burners are Mr. Leslie's, and exhibit the best and most economical specimen of street lighting in the metropolis. The enormous waste of gas in the streets by the bat's-wing burner may be contrasted with the fact, that Mr. Leslie's burners for all the gas consumed in the Green-park have realised the company 6s. per 1,000 cubic feet. Dr. Lyon Playfair has, in the report now before the Government, stated that Mr. Leslie's burner, using the same quantity of gas, gives more than double the light of the bat's-wing and fish-tail burners. The Ordnance and Foreign Offices are also under Mr. Leslie's patents. The great banking-houses of Messrs. Smith, Payne, and Smiths; Hoare, Barnett, and Co.; Call and Co.; the Royal British Bank; also many of the leading merchants, and the trading classes, as well as the inmates of the West-end mansions, are enjoying the advantages of these patents. The public press were early in patronising improvements which affected the health and comfort of their compositors. The proprietors of *Bell's Life in London*, the *Observer*, the *Morning Chronicle*, all have these patent purifiers and Leslie's burners throughout their offices.

THE THAMES TUNNEL.—This wonderful work, where, 70 feet below the Thames, about 1[illegible] of Leslie's burners are constantly burning, day and night. The able and distinguished resident engineer and superintendent of that work, W. W. Mason, Esq., has, during three years, most favourably reported to his court of directors as to the sanitary and economic effects of Leslie's system. We make the following extracts:—"August 4th, 1847. I have procured thirty glass combustion chambers from Mr. Leslie, and had twenty-five fixed on the Rotherhithe side of the tunnel; they are, I think, the best things ever introduced for economy in the gas world. The consumption of each burner is now about 4½ feet per hour, with a steady, uniform light." Having obtained permission from the directors immediately to carry out the improvement, he, in September, 1847, reports "that although the burners in the tunnel are increased from 119 to 134, the consumption of gas is much less than any previous year."

May 3rd, 1848, he reports that in the quarter ending March, the saving of gas was 207,3[illegible] cubic feet.

April, 1849, Mr. Mason further reports and shows that the saving of the quarter is 254,3[illegible] cubic feet—the tunnel having nearly double the light.

July, 1849, Mr. Mason again reports that the "Leslie Gas-burner continues to act well; the light in the tunnel is far better than at any previous period. The following is the gas consumption for the months of June:—

June, 1847, with 120 burners, 197,[illegible] cubic feet.
" 1848 " 138 " 184,[illegible] "
" 1849 " 143 " 177,700" "

Every fish-tail burner that was displaced by Leslie's [illegible]-tube burner, was a great increase of light, and decrease of gas consumed,—the practical result being in strict accordance with the very able scientific report of *Dr. Lyon Playfair*, now before the Government, that Leslie's burner, with the proper sized glass combustion chamber, and an equal quantity of gas, gave more than double the light that the bat's-wing or fish-burner could produce.

The wonderful effects of Leslie's purifier, after the General Post-office official documents, can no where be so well exhibited as in the Thames Tunnel, where a continuous record of the state of the gas, before it enters and after it has passed, the purifier is kept. Upwards of three millions and a half of cubic feet of gas have passed the purifier, without the slightest stain being discovered, or the purifier having once been replenished.

ON THE ECONOMY OF FUEL.

These patents are equal, in a scientific point of view, with Mr. Leslie's discoveries in the combustion of gas, and their results are in every way satisfactory. The fireplace is at the back, bottom, and sides of fire-brick, with slight bars of iron to keep the coal from falling out,—the only admission of air to support combustion being in front. The radiation of heat comes along the floor of the room, instead of passing up the chimney; by this means the expenditure of coal is lessened 50 per cent., and the ash left is not quite 1½ per cent. of the coal consumed.

The patentee informs us that his inventions are in use in a great many public buildings, and that among the distinguished persons who have patronised him may be named the Earl of Lonsdale, Lord Rivers, the Earl of Carlisle, the Duke and Duchess of Sutherland, the Duke of Richmond, the Earl and Countess of Besborough, the Commissioners of Her Majesty's Woods, &c., the Foreign Office, the Travellers' Club, Sir Benjamin Hall, Bart., Lord Sudely, Sir Watkins William Wynne, Lord Francis Gordon, the Proprietors of the *Times*, *Bell's Life in London*, and the *Observer*; Lord Elphinstone, the Marquis and Marchioness of Clanricarde, the Earl of Macclesfield, the Earl Cadogan, Viscount and Viscountess Chelsea, Lord and Lady William Fitzroy, Earl Fortescue, Viscount and Viscountess Ebrington, Lord and Lady Ashburton, the Earl and Countess of St. Germans, &c. &c.

The price of these stoves being so moderate (for some may be had at as low a price as 10s. each) can form no obstacle to their general use, and we have no hesitation in strongly recommending them to the public.

LESLIE'S GAS ENGINEERING OFFICES AND MANUFACTORY, 59, CONDUIT-STREET, LONDON.

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